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Claims:

1. A method of sealing, the method comprising:
providing a top substrate and a bottom substrate, and at least one layer of organic material between the substrates; and
focusing a relatively high power, short-duration laser irradiation onto a region of the top glass substrate, thereby sealing the top substrate to the bottom substrate.

2. A method as recited in claim 1, wherein at least one of the substrates is glass.

3. A method as recited in claim 1, wherein the focusing effects a localized non-linear optical absorption of the light.

4. A method as recited in claim 3, wherein the non-linear optical absorption is a multiphoton absorption.

5. A method of as recited in claim 2, wherein at least one of the substrates absorbs substantially none of the light from the laser wavelength at low intensities.

6. A method as recited in claim 1, wherein one of the substrates does not have electrodes.

7. A method as recited in claim 2, wherein a bandgap of the at least one glass substrates lies in the UV range.

8. A method as recited in claim 7, wherein the top glass substrate absorbs energy through non-radiative process.

9. A method as recited in claim 8, wherein the top glass substrate efficiently transfers energy from the laser to heat through non-radiative process.

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17 ~~16~~. An apparatus as recited in claim 14, wherein the diagnostic system 206 provides laser energy data.

18. ~~17~~. An apparatus as recited in claim 14, further comprising an optical element that reflects light from the laser, and which transmits light from a probe beam from the diagnostic system.

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19 ~~18~~. An apparatus as recited in claim ~~17~~, wherein the probe beam is emitted from a light source of the diagnostic system.

20. ~~19~~. An apparatus as recited in claim 11, wherein the bottom substrate and the top substrate are glass, and an OLED material is disposed over the bottom substrate.

21. ~~20~~. An OLED package, comprising:
a top substrate and a bottom substrate; and a
a glass hermetic seal between the substrates, which provides a barrier to contaminants.

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10. A method as recited in claim 1, wherein an OLED material is between the two glass substrates.

11. An apparatus for sealing, comprising:

a laser;

a controller, which controls the output power of the laser; and

an optical element that focuses light from the laser onto a top substrate, wherein the substrate absorbs the light in a multiphoton absorption process, providing a hermetic seal between the top substrate and a lower substrate.

12. An apparatus as recited in claim 11, wherein the laser emits light at a wavelength that corresponds to an energy that is less than a bandgap energy of a material of the top layer.

13. An apparatus as recited in claim 11, wherein the focusing of the light by the optical element provides an intensity within a focal volume of the optical element that exceeds a threshold for multiphoton absorption.

14. An apparatus as recited in claim 11, wherein the laser emits light at a wavelength that corresponds to an energy that is less than a bandgap energy of a material of the top layer.

15.

~~14~~. An apparatus as recited in claim 11, further comprising:

a diagnostic system, which provides monitoring of a sealing process.

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~~15~~. An apparatus as recited in claim 14, wherein the diagnostic system 206 provides distance feedback measurement information.